



Firmware Version:
 28: 4.00.012
 52: 4.00.025
 28P: 4.00.043
 20: 4.00.041

Boot Code Version:
 28: 1.00.005
 52: 1.00.012
 28P: 1.00.010
 20: 1.00.012

MIB Version:
 28: 4.00.008
 52: 4.00.010
 28P: 4.00.013
 20: 4.00.010

D-View Module Version:
 28: 4.0.0.13
 52/28P/20: 4.0.0.4

Published:
 28: Aug. 23, 2013
 52: Nov. 13, 2013
 20: Feb. 7th, 2014
 28P: Mar. 18th, 2014

These release notes include important information about D-Link switch firmware revisions. Please verify that these release notes are correct for your switch:

- If you are installing a new switch, please check the hardware version on the device label; make sure that your switch meets the system requirement of this firmware version. Please refer to [Revision History and System Requirement](#) for detailed firmware and hardware matrix.
- If the switch is powered on, you can check the hardware version by typing "show switch" command via Telnet or by checking the device information page on the web graphic user interface.
- If you plan to upgrade to the new firmware release, please refer to the [Upgrade Instructions](#) for the correct firmware upgrade procedure.

For more detailed information regarding our switch products, please refer to [Related Documentation](#).

You can also download the switch firmware, D-View modules and technical documentation from <http://tsd.dlink.com.tw>.

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Revision History and System Requirement:

Firmware Version	Date	Model	Hardware Version
Runtime: v4.00.012 Boot: 1.00.005	23- Aug.-13	DGS-1210-28	C1 (First release)
Runtime: v4.00.025 Boot: 1.00.012	13- Nov.-13	DGS-1210-52	C1 (First release)
Runtime: v4.00.024 Boot: 1.00.010	13- Nov.-13	DGS-1210-28P	C1 (First release)
Runtime: v4.00.041 Boot: 1.00.012	14- Feb.-14	DGS-1210-20	C1 (First release)
Runtime: v4.00.043 Boot: 1.00.010	18- Mar.-14	DGS-1210-28P	C1

Upgrade Instructions:

D-Link Smart Switches support firmware upgrade via TFTP server. You can download the firmware from D-Link web site <http://tsd.dlink.com.tw>, and copy the downloaded firmware to the TFTP server folder. Please make sure that the TFTP server is accessible from the switch via networks.

Upgrade using CLI (via Telnet)

1. Make sure the network connection between the switch and PC is active.
2. Use software that supports telnet, for example, HyperTerminal or Telnet command in Microsoft Windows, to connect to the switch. If you are using Telnet command, type the command followed by the switch IP address, eg. *telnet 10.90.90.90*.
3. The logon prompt will appear.

The switch will prompt the user to enter his/her username and password. It should be noted that upon the initial connection, both the default user name and password are **admin**.

To upgrade the switch firmware, execute the following command:

Command	Function
download{firmware_fromTFTP tftp://ip-address/filename cfg_fromTFTP tftp://ip-address/filename}	Download firmware file from the TFTP server to the switch.

When completing firmware upgrade, the following messages will pop up.

Device will reboot after firmware upgraded successfully
Image upgraded successfully

4. Execute the following command to check the firmware version and switch's information.

Command	Function
show switch	Display the information of current firmware and boot version.

Example:

1. DGS-1210-28:

```
Command: download firmware_fromTFTP tftp://10.90.90.91
DGS-1210-28-C1-4-00-012hex
Device will reboot after firmware upgraded successfully
Image upgraded successfully
```

2. DGS-1210-28:

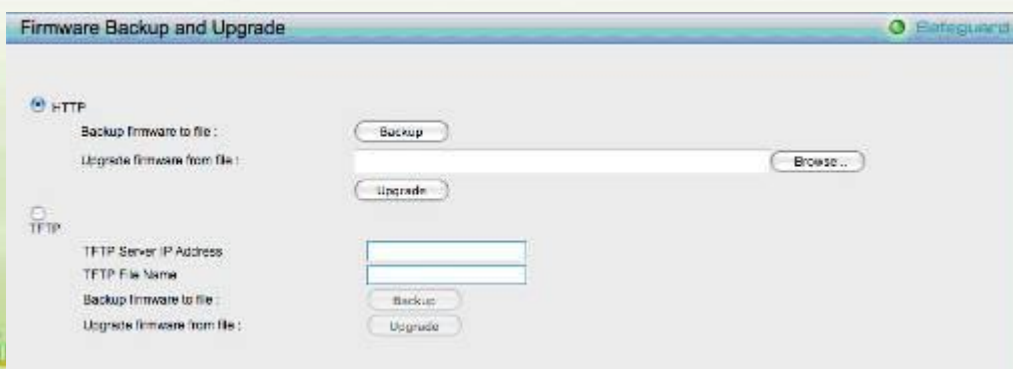
```
Command: show switch
DGS-1210-28> show switch
System name                :
System Contact              :
System Location             :
System up time              : 0 days, 0 hrs, 36 min, 56 secs
System Time                 : 01/01/2013 01:01:55
System hardware version     : C1
System firmware version     : 4.00.012
System boot version         : 1.00.005
System serial number        : 1MB1733K0000A
MAC Address                 : 00-87-87-AB-88-77
```

Upgrade using Web-UI

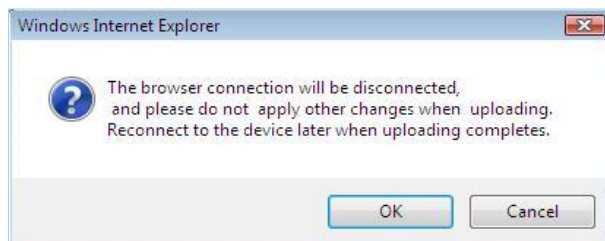
1. Connect a workstation installed with java SE runtime environment to any switch port of the device.
2. Open the web browser from the workstation and enter the IP address of the switch. The switch's default IP address is 10.90.90.90.
3. Enter administrator's password when prompted. The password is **admin** by default.
4. To update switch's firmware or configuration file, select **Tools > Firmware Backup & Upgrade** from the banner.



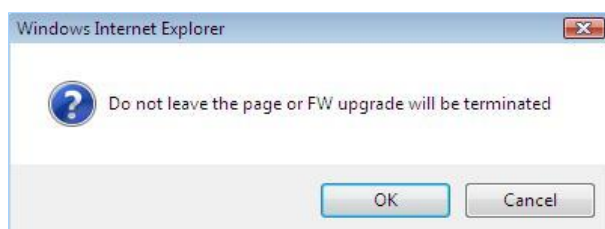
5. Two methods can be selected : **HTTP** or **TFTP**



6. Select **HTTP** to upgrade the firmware to or from your local drive of PC.
 - a. Click **Browse** to browse your inventories for a saved firmware file
 - b. Click **Upgrade** after selecting the firmware file you want to restore
 - c. Click **OK** to continue with firmware upgrade



- d. Click **OK** to continue with firmware upgrade



- e. Wait until the "Firmware Upgrade Successful" message pops up and login again after device boots up.



7. Select **TFTP** to upgrade the firmware to or from a remote TFTP server.
 - a. Enter the name of the firmware file located on the TFTP server
 - b. Click **Upgrade** after selecting the firmware file you want to restore
 - c. Click **OK** to continue with firmware upgrade

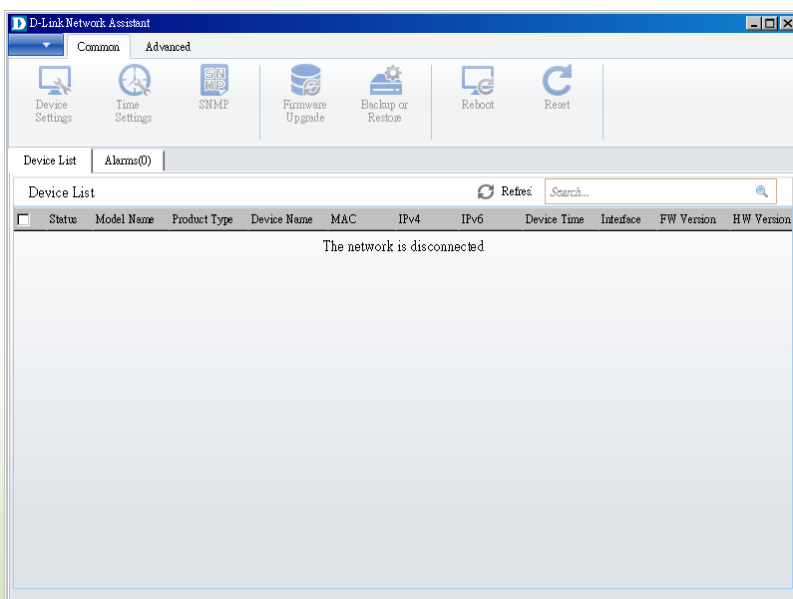


- d. Wait until the firmware upgrade ends and login again after device boots up.

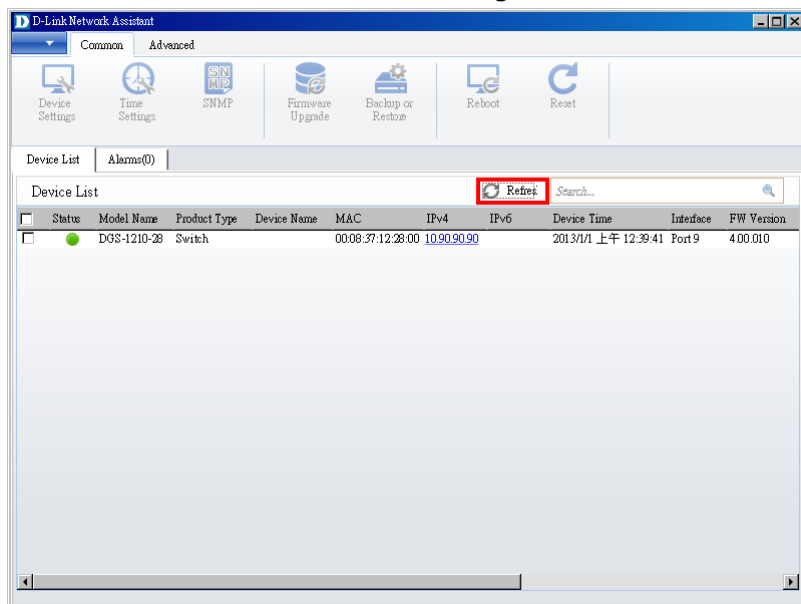


Upgrade using D-Link Network Assistant

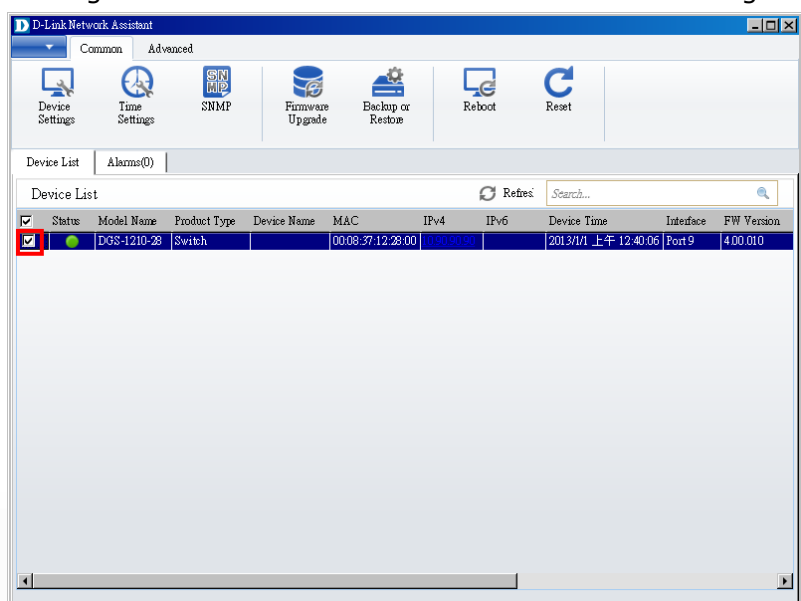
1. Connect a workstation installed with java SE runtime environment to any switch port of the device
2. Execute D-Link Network Assistant



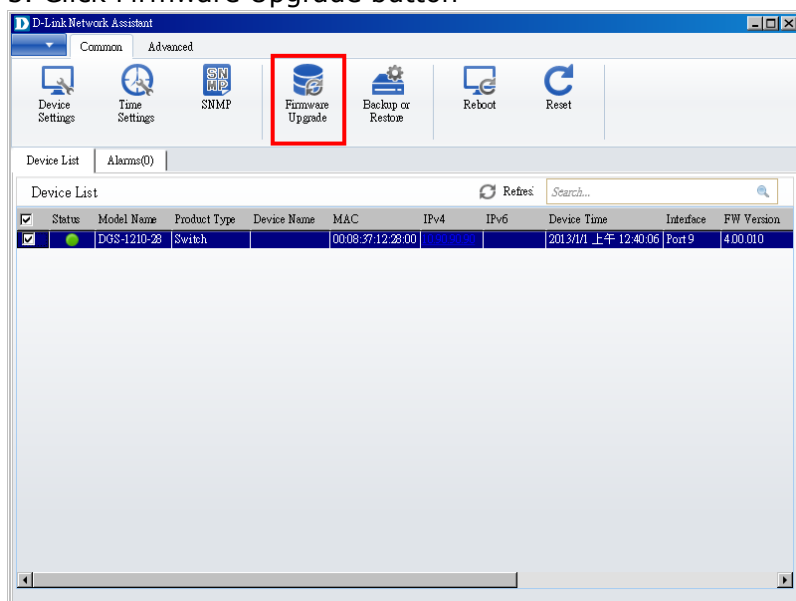
3. Click Refresh button to search target switch



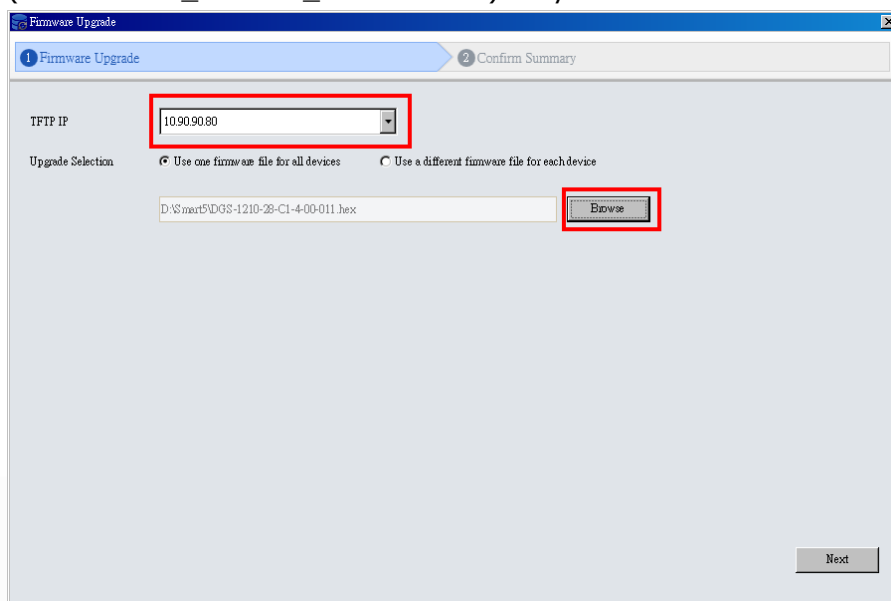
4. Single click the icon of the column to choose the target switch



5. Click Firmware Upgrade button



6. Select PC IP address of the target switch, then click Browse button and select the firmware file (Model name_HW ver._FW ver. .hex) on your local hard drive.



7. Click the checkbox and click "Submit" button to start firmware upgrade.

The screenshot shows the 'Firmware Upgrade' window with the 'Confirm Summary' tab selected. The window displays the target IP (10.90.90.80) and the firmware file path (D:\Smart5\DGS-1210-28-C1-4-00-011.hex). Below this, there is a table titled 'Apply to All Devices' with columns for 'IsUp', 'Model Name', 'MAC', 'IPv4', and 'Serial Number'. The table contains one row for 'DGS-1210-28' with MAC '0008:37:12:28:00' and IPv4 '10.90.90.90'. At the bottom, there is a 'Notification' section with a warning message and a checkbox labeled 'I understand the risks' which is checked. To the right of the notification is an 'Authentication' section with a 'Password' field. At the bottom right, there are 'Previous' and 'Submit' buttons, with the 'Submit' button highlighted by a red box.

IsUp	Model Name	MAC	IPv4	Serial Number
Yes	DGS-1210-28	0008:37:12:28:00	10.90.90.90	QB0GS12103800

Notification
Warning : Do not disconnect the network or close this program during the upgrade process; unrecoverable damage to the devices may result. Please note that during the upgrade process, your devices may reboot.

☒ I understand the risks

Authentication
Password:

Previous Submit

8. Once the message changed to success, click "Close" button to complete and exit the firmware upgrade

The screenshot shows the 'Firmware Upgrade' window with the 'Confirm Summary' tab selected. The window displays the 'Result' section with a table showing the upgrade status. The table has columns for 'Result', 'Model Name', 'MAC', 'IPv4', and 'Details'. The first row shows a successful upgrade for 'DGS-1210-28' with MAC '0001:02:03:04:05' and IPv4 '10.90.90.90'. The details column indicates 'Command has been successfully executed: (0)'. At the bottom right, there is a 'Close' button highlighted by a red box.

Result	Model Name	MAC	IPv4	Details
✓	DGS-1210-28	0001:02:03:04:05	10.90.90.90	Command has been successfully executed: (0)

Close

New Features:

Firmware Version	New Features
V4.00.012	First Release (for DGS-1210-28 v.C1)
V4.00.025	First Release (for DGS-1210-52 v.C1)
V4.00.024	First Release (for DGS-1210-28P v.C1)
V4.00.041	First Release (for DGS-1210-20 v.C1)
V4.00.043	for DGS-1210-28P v.C1

Changes of MIB & D-View Module:

The new features of MIB file are also included in the corresponding D-View module. Please download the D-View module from <http://tsd.dlink.com.tw>. For detailed changes of MIB content, please refer to the modification history in each MIB file.

Firmware Version	MIB File	New Features
V4.00.012	DGS-1210-28-CX-4_00_008.mib	First Release
V4.00.025	DGS-1210-52-CX-4-00-010.mib	First Release
V4.00.024	DGS-1210-28P-CX-4-00-010.mib	First Release
V4.00.041	DGS-1210-20-CX-4-00-010.mib	First Release
V4.00.043	DGS-1210-28P-CX-4-00-013.mib	Fix IOT issue with HIKVision Camera. Adding "Delay Power Detect" to extend PD detection schedule from 400ms to 500ms

Firmware Version	D-View Module File	New Features
V4.00.012	DV_DGS-1210-28_V4.0.0.13_FW_v4.00.012.exe	First Release
V4.00.025	DV_DGS-1210-52_V4.0.0.3_FW_v4.00.025.exe	First Release
V4.00.024	DV_DGS-1210-28P_V4.0.0.13_FW_v4.00.024.exe	First Release
V4.00.041	DV_DGS-1210-20_V4.0.0.4_FW_v4.00.039.exe	First Release
V4.00.043	DV_DGS-1210-28P_V4.0.0.13_FW_v4.00.043.exe	

Changes of Command Line Interface:

The section below only shows command line changes that may bring backward compatibility issues with configuration settings for previous version of firmware. Any new feature commands that do not have backward compatibility issues are not included in the below section.

Firmware Version	Changes
V4.00.012	First Release (for DGS-1210-28 v.C1)
V4.00.025	First Release (for DGS-1210-52 v.C1)
V4.00.024	First Release (for DGS-1210-28P v.C1)
V4.00.041	First Release (for DGS-1210-20 v.C1)
V4.00.043	for DGS-1210-28P v.C1

Problem Fixed:

Firmware Version	Problems Fixed
V4.00.012	First Release (for DGS-1210-28 v.C1)

V4.00.025	First Release (for DGS-1210-52 v.C1)
V4.00.024	First Release (for DGS-1210-28P v.C1)
V4.00.041	First Release (for DGS-1210-20 v.C1)
V4.00.043 (DGS-1210-28P v.C1)	<ol style="list-style-type: none"> 1. Auto surveillance VLAN: MAC range of D-Link camera is added B0C5540 ~ B0C5547. 2. Fix bug on Lab report ID (DBG13120389): There is some packet loss when sends IPV6_CTRL1.str and IPV6_CTRL2.str. 3. Fix IOT issue with HIKVision Camera. Adding "Delay Power Detect" on Web to extend PD detection schedule from 400ms to 500ms

* D-Link tracking number is enclosed in ()

Known Issues:

Firmware Version	Issues	Workaround
V4.00.012 (for DGS-1210-28 v.C1)	<ol style="list-style-type: none"> 1. The behavior of Head-of-Line blocking is abnormal when packet length is more than 1660 bytes. 2. The egress mirror packet will always have an outer tag. 3. EEE IOT issue with ASUS K52F (JMicron PCI Express Gigabit Ethernet Adapter) and A43S (Atheros AR8151). When port connects to ASUS K52F or ASUS A43S, port speed will be down to 100Mbps full-duplex mode. 	None
4.00.025 (for DGS-1210-52 v.C1)	<ol style="list-style-type: none"> 1. If flow control is enabled on any port, all ports will receive pause frame and cause port speed down of flow control disabled port. 2. The egress mirror packet will always have an outer tag. 3. EEE IOT issue with ASUS K52F (JMicron PCI Express Gigabit Ethernet Adapter) and A43S (Atheros AR8151). When port connects to ASUS K52F or ASUS A43S, port speed will be down to 100Mbps full-duplex mode. 	Item 1 will be fixed on beta firmware v.4.00.B033.

4.00.043 (for DGS-1210-28P v.C1)	<ol style="list-style-type: none"> 1. The egress mirror packet will always have an outer tag. 2. EEE IOT issue with ASUS K52F (JMicron PCI Express Gigabit Ethernet Adapter) and A43S (Atheros AR8151). When port connects to ASUS K52F or ASUS A43S, port speed will be down to 100Mbps full-duplex mode. 	None
4.00.041 (for DGS-1210-20 v.C1)	<ol style="list-style-type: none"> 3. The egress mirror packet will always have an outer tag. 4. EEE IOT issue with ASUS K52F (JMicron PCI Express Gigabit Ethernet Adapter) and A43S (Atheros AR8151). When port connects to ASUS K52F or ASUS A43S, port speed will be down to 100Mbps full-duplex mode. 	None

Related Documentation:

- DGS-1210-28/52/28P/20 Series User Manual
- DGS-1210-28/52/28P/20 Series Getting Started Guide